UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

24498

7590

12/03/2010

Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312 EXAMINER

HOLDER, ANNER N

ART UNIT PAPER NUMBER

2483

DATE MAILED: 12/03/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,976	07/21/2005	Jill MacDonald Boyce	PU030312	2020

TITLE OF INVENTION: ROBUST MODE STAGGERCASTING WITHOUT ARTIFACTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance o herwise in Block 1, by (rders and notification and specifying a new co	of m orresp	naintenance fees woondence address;	vill be and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 24498 7590 12/03/2010					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
					Cer	tificate	of Mailing or Transn	nission
Robert D. Sheo THOMSON Lic P.O. Box 5312] ; ;	I hereby certify that this Fee(s) Transmittal is be States Postal Service with sufficient postage for addressed to the Mail Stop ISSUE FEE addre transmitted to the USPTO (571) 273-2885, on the				eing deposited with the United first class mail in an envelope ess above, or being facsimile		
Princeton, NJ 08			(Depos					
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	гоп		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/542,976	07/21/2005		Jill MacDonald Boyc				PU030312	2020
TITLE OF INVENTION	F: ROBUST MODE STA	GGERCASTING WITH	_					
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	_	\$0		\$1810	03/03/2011
EXAM		ART UNIT	CLASS-SUBCLASS					
HOLDER, 1. Change of correspond		2483	375-240120					
CFR 1.363). Change of corresp Address form PTO/SB Tee Address" ind PTO/SB/47; Rev 03-0 Number is required.	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	A TO BE PRINTED ON iffied below, no assignee pletion of this form is NO	data will appear on th	ne pa gan a	tent. If an assign issignment. and STATE OR C	COUNT	RY)	cument has been filed for
Please check the appropr	riate assignee category or	r categories (will not be p	rinted on the patent):	Ц	Individual 🖵 Co	orporati	on or other private gro	up entity Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (l		se first reapply ar	ny prev	iously paid issue fee s	hown above)
Issue Fee	T11	:	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number					
5. Change in Entity Sta	,							
**	s SMALL ENTITY state		• •	_			CITY status. See 37 CF	R 1.27(g)(2). e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	c Office.	an u	е аррисані, а геді	Stereu .	ttorney or agent, or the	e assignee of other party in
Authorized Signature					Date			
Typed or printed name			Registration No					
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DC	FR 1.311. The information of U.S.C. 122 and 37 CFR EUSPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	on is required to obtain 1.14. This collection is y depending upon the in the Chief Information Of COMPLETED FORMS	or re s esti ndivi ffice S TO	etain a benefit by t mated to take 12 I dual case. Any co r, U.S. Patent and THIS ADDRESS	he publ minutes omment Traden S. SENI	ic which is to file (and to complete, including s on the amount of tim nark Office, U.S. Depa O TO: Commissioner fo	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/542,976	07/21/2005	Jill MacDonald Boyce	PU030312	2020	
24498 73	24498 7590 12/03/2010			INER	
Robert D. Shedd	, Patent Operations	HOLDER, ANNER N			
THOMSON Licen	sing LLC	ART UNIT	PAPER NUMBER		
P.O. Box 5312 Princeton, NJ 0854	1 3-5312		2483 DATE MAILED: 12/03/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1232 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1232 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)					
Notice of Allowability	10/542,976 Examiner	BOYCE ET AL. Art Unit					
	ANNER HOLDER	2483					
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not include nunication will be mailed in due o	d course. THIS				
1. This communication is responsive to <u>09/23/10</u> .							
2. The allowed claim(s) is/are <u>56-80</u> .							
 3. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. 	e been received. e been received in Applicati	on No	ion from the				
International Bureau (PCT Rule 17.2(a)).							
* Certified copies not received:							
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the req	uirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	w (PTO-948) attached					
1) ☐ hereto or 2) ☐ to Paper No./Mail Date							
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			lote the				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of I	nformal Patent Application					
 Notice of References Cited (F10-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),					
· · · · · · · · · · · · · · · · · · ·	Paper No	./Mail Date					
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. ∐ Examiner's	s Amendment/Comment					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allov	wance				
	9.						
/Tung Vo/							
Primary Examiner, Art Unit 2483							

Art Unit: 2483

REASONS FOR ALLOWANCE

1. Claims 56-80 are allowed.

2. The following is an examiner's statement of reasons for allowance: the cited prior art fails to teach the Applicant's claimed limitations as follows encoding a first signal representing content for generating a first encoded signal comprising successive independent decoding segments; encoding a second signal representing the content for generating a second encoded signal comprising successive independent decoding segments respectively corresponding to the independent decoding segments of the first encoded signal; and wherein the encoding used for said second signal is different from the encoding used for said first signal, delaying the first encoded signal with respect to the second encoded signal; generating a composite signal comprising the delayed first encoded signal and the second encoded signal; and channel encoding the composite signal such that the portion of the composite signal representing the first encoded signal is channel encoded differently from the portion of the composite signal representing the second encoded signal, wherein each independent decoding segment has an associated time duration; and in the delaying step, the first encoded signal is delayed by the associated time duration with respect to the second encoded signal, as well as, wherein each independent decoding segment has an associated time duration; and wherein the first encoded signal is delayed by the time duration with respect to the second encoded signal; and further comprising the step of delaying the extracted second encoded signal by the time duration, whereby the extracted first encoded signal

and the extracted second encoded signal are realigned in time as substantially described and connected with the other functional language.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANNER HOLDER whose telephone number is (571)270-1549. The examiner can normally be reached on M-W, M-W 8 am-3 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Ustaris can be reached on 571-272-7383. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/542,976 Page 4

Art Unit: 2483

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tung Vo/ Primary Examiner, Art Unit 2483

/Anner Holder/ Examiner, Art Unit 2483